

COPY OF PAPERS  
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2181

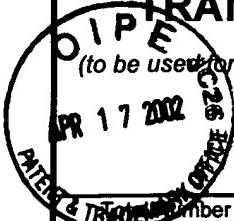
PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL FORM**

(to be used for all correspondence after initial filing)



Number of Pages in This Submission

12

Application No.	09/470,542
Filing Date	December 22, 1999
First Named Inventor	David Frame
Group Art Unit	2181
Examiner Name	X M Thai
Attorney Docket Number	42390P7651

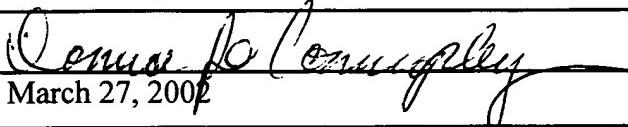
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**ENCLOSURES (check all that apply)**

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment / Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert a Provisional Application	<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/>
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	<input type="checkbox"/>
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/>
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/>	<input type="checkbox"/>
Remarks		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Donna Jo Coningsby, Reg. No. 41,684  BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Signature	
Date	March 27, 2002

**CERTIFICATE OF MAILING/TRANSMISSION**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail with sufficient postage in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on: March 27, 2002

Typed or printed name	Mark W. Baugher
Signature	
Date	March 27, 2002

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PTO/SB/17 (11-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**FEES TRANSMITTAL  
for FY 2002**

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT	(\$)	110.00
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*Complete if Known*

Application Number	09/470,542
Filing Date	December 22, 1999
First Named Inventor	David Frame
Examiner Name	X M Thai
Group/Art Unit	2181
Attorney Docket No.	42390P7651

**METHOD OF PAYMENT (check one)**

Check     Credit card     Money Order     Other     None  
 Deposit Account

Deposit Account Number **02-2666**

Deposit Account Name **Blakely, Sokoloff, Taylor & Zafman LLP**

The Commissioner is authorized to: (check all that apply)

- Charge fee(s) indicated below     Credit any overpayments  
 Charge any additional fee(s) during the pendency of the application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

**FEE CALCULATION**

**1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
101	740	201	370	Utility filing fee
106	330	206	165	Design filing fee
107	510	207	255	Plant filing fee
108	740	208	370	Reissue filing fee
114	160	214	80	Provisional filing fee
SUBTOTAL (1)		(\$)		

**2. EXTRA CLAIM FEES**

Total Claims	Independent Claims	Extra Claims	Fee from below	Fee Paid
<input type="text"/>	<input type="text"/>	** = <input type="text"/>	X <input type="text"/>	= <input type="text"/>
<input type="text"/>	<input type="text"/>	** = <input type="text"/>	X <input type="text"/>	= <input type="text"/>

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple Dependent claim, if not paid
109	84	209	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent
SUBTOTAL (2)		(\$)		

\*\*or number previously paid, if greater. For Reissues, see below

**3. ADDITIONAL FEES**

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)
105	130	205	65 Surcharge - late filing fee or cover sheet.
127	50	227	25 Surcharge - late provisional filing fee or cover sheet.
139	130	139	130 Non-English specification
147	2,520	147	2,520 For filing a request for ex parte reexamination
112	920 *	112	920 * Requesting publication of SIR prior to Examiner action
113	1,840 *	113	1,840 * Requesting publication of SIR after Examiner action
115	110	215	55 Extension for reply within first month
116	400	216	200 Extension for reply within second month
117	920	217	460 Extension for reply within third month
118	1,440	218	720 Extension for reply within fourth month
128	1,960	228	980 Extension for reply within fifth month
119	320	219	160 Notice of Appeal
120	320	220	160 Filing a brief in support of an appeal
121	280	221	140 Request for oral hearing
138	1,510	138	1,510 Petition to institute a public use proceeding
140	110	240	55 Petition to revive - unavoidable
141	1,280	241	640 Petition to revive - unintentional
142	1,280	242	640 Utility issue fee (or reissue)
143	460	243	230 Design issue fee
144	620	244	310 Plant issue fee
122	130	122	130 Petitions to the Commissioner
123	50	123	50 Processing fee under 37 CFR 1.17(q)
126	180	126	180 Submission of Information Disclosure Stmt
581	40	581	40 Recording each patent assignment per property (times number of properties)
146	740	246	370 Filing a submission after final rejection (37 CFR § 1.129(a))
149	740	249	370 For each additional invention to be examined (37 CFR § 1.129(b))
179	740	279	370 Request for Continued Examination (RCE)
169	900	169	900 Request for expedited examination of a design application
Other fee (specify)			
Reduced by Basic Filing Fee Paid		SUBTOTAL (3)	
		(\$)	
		110.00	

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Fee Paid

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**SUBMITTED BY**

Complete (if applicable)

Name (Print/Type)	Donna Jo Coningsby	Registration No. (Attorney/Agent)	41,684	Telephone	(503) 684-6200
Signature	<i>Donna Jo Coningsby</i>			Date	03/27/02

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2039.

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PATENT APPLICATION

042390.P7651

#5/A  
pay  
42602

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:



March 15, 2002

Frame et al.

Serial No.: 09/470,542

Filed: December 22, 1999

Group Art Unit: 2181

Examiner: X M Thai

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APR 24 2002

Technology Center 21

For: APPARATUS AND METHOD FOR COUPLING TO A MEMORY MODULE

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO:  
 DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE,  
 WASHINGTON, D.C. 20231, ON: March 27, 2002

Date of Deposit

INTEL CORPORATION

Name of Assignee

JM-BR  
SIGNATURE3/27/02  
DATE

## RESPONSE

HONORABLE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE,  
 Washington, D.C. 20231

Dear Sir:

In response to the Office Action mailed December 17, 2001, please reconsider the above-identified patent application in view of the remarks and amendments below. Applicants would like to thank the Examiner for the efforts in identifying issues with this application.

Applicants believe the following is a complete response to the issues raised by the Examiner and that the following amendments and comments place the application into condition for allowance.

## PATENT APPLICATION

042390.P7651

AmendmentAmendment to Specification

Please amend the specification as shown below.

On page 2, line 9, delete

"and available at [http://www.rambus.com/developer/support\\_asic.html](http://www.rambus.com/developer/support_asic.html)".

On page 6, line 21, change the second occurrence of "25" to -35--.

Amendment to Claims

Please amend the claims as shown below and cancel claims 10-Y1 and 20-22 without prejudice.

1. (Once amended) An apparatus comprising:

a first integrated circuit comprising a Direct Rambus™ ASIC Cell (Direct RAC);

a second integrated circuit comprising a Direct RAC;

a mezzanine card having a connector and comprising the second integrated circuit, wherein the connector is adapted to be communicatively coupled to a third integrated circuit, wherein the connector includes a first metal line and a second metal line, the second metal line being longer than the first metal line, and wherein the second metal line has a parasitic capacitance value greater than a parasitic capacitance value of the first metal line; and